

PTO/SB/08A (08-03)

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Sheet 1 of 30

**Complete if Known**

Application Number	10/770,353
Filing Date	02/02/2004
First Named Inventor	Ganapathy Krishnan
Art Unit	3621
Examiner Name	John M. Winter
Attorney Docket Number	35040.001C4

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 3,996,449	12/07/1976	Attanasio et al.	
		US- 4,104,721	01/01/1978	Markstein et al.	
		US- 4,120,030	10/10/1978	Johnstone	
		US- 4,168,396	09/18/1979	Best	
		US- 4,183,085	01/08/1980	Roberts et al.	
		US- 4,246,638	01/20/1981	Thomas	
		US- 4,278,837	07/14/1981	Best	
		US- 4,471,216	09/11/1984	Herve	
		US- 4,513,174	04/23/1985	Herman	
		US- 4,523,271	06/11/1985	Levien	
		US- 4,525,599	06/25/1985	Curran et al.	
		US- 4,558,176	12/10/1985	Arnold et al.	
		US- 4,562,305	12/31/1985	Gaffney, Jr.	
		US- 4,562,306	12/31/1985	Chou et al.	
		US- 4,577,289	03/18/1986	Cornford et al.	
		US- 4,598,288	07/01/1986	Yarbrough et al.	
		US- 4,599,489	07/08/1986	Cargile	
		US- 4,609,777	09/02/1986	Cargile	
		US- 4,609,985	09/02/1986	Dozier	

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Sheet **2** of **30****U. S. PATENT DOCUMENTS**

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<i>Om</i>		US- 4,621,321	11/04/1986	Boebert et al.	
		US- 4,621,334	11/04/1986	Garcia	
		US- 4,633,388	12/30/1986	Chiu	
		US- 4,644,493	02/17/1987	Chandra et al.	
		US- 4,652,990	03/24/1987	Pailen et al.	
		US- 4,799,156	01/17/1989	Shavit et al.	
		US- 4,817,140	03/28/1989	Chandra et al.	
		US- 4,825,045	04/25/1989	Humble	
		US- 4,827,508	05/02/1989	Shear	
		US- 4,903,296	02/20/1990	Chandra et al.	
		US- 5,053,957	10/01/1991	Suzuki	
		US- 5,206,951	04/27/1993	Khoyi et al.	
		US- 5,226,161	07/06/1993	Khoyi et al.	
		US- 5,347,632	09/13/1994	Filepp et al.	
		US- 5,355,497	10/11/1994	Cohen-Levy	
		US- 5,396,626	03/07/1995	Nguyen	
		US- 5,410,691	04/25/1995	Taylor	
		US- 5,421,012	05/30/1995	Khoyi et al.	
		US- 5,488,716	01/30/1996	Schneider et al.	

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OM		US- 5,497,421	03/05/1996	Kaufman et al.	
		US- 5,537,314	07/16/1996	Kanter	
		US- 5,537,546	07/16/1996	Sauter	
		US- 5,539,828	07/23/1996	Davis	
		US- 5,539,886	07/23/1996	Aldred et al.	
		US- 5,555,244	09/10/1996	Gupta et al.	
		US- 5,572,643	11/05/1996	Judson	
		US- 5,594,869	01/14/1997	Hawe et al.	
		US- 5,603,031	02/11/1997	White et al.	
		US- 5,710,887	01/20/1998	Chelliah et al.	
		US- 5,734,828	03/31/1998	Pendse et al.	
		US- 5,764,908	06/09/1998	Shoji et al.	
		US- 5,794,006	08/11/1998	Sanderman	
		US- 5,940,619	08/17/1999	Abadi et al.	
		US- 5,968,136	10/19/1999	Saulpaugh et al.	
		US- 5,999,622	12/07/1999	Yasukawa et al.	
		US- 5,999,914	12/07/1999	Blinn et al.	
		US- 6,049,671	04/11/2000	Slivka et al.	
		US- 6,059,838	05/09/2000	Fraleigh et al.	

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First Named Inventor	Ganapathy Krishnan
Art Unit	3621
Examiner Name	John M. Winter
Attorney Docket Number	35040.001C4

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		US- 4,562,305	12/31/1985	Gaffney, Jr.	
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		US- 4,599,489	07/08/1986	Cargile	
		US- 4,609,777	09/02/1986	Cargile	
		US- 4,609,985	09/02/1986	Dozier	
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		US- 4,621,334	11/04/1986	Garcia	
		US- 4,633,388	12/30/1986	Chiu	
		US- 4,644,493	02/17/1987	Chandra et al.	
		US- 4,866,769	09/12/1989	Karp	
		US- 5,014,234	05/07/1991	Edwards, Jr.	
		US- 5,291,598	03/01/1994	Grundy	
		US- 5,724,425	03/03/1998	Chang et al.	
		US- 4,995,082	02/19/1991	Schnorr	

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		WO 98/58306 A1	12/23/1998	TECHWAVE, INC.		

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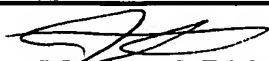
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CM		PAREKH, Michael K., et al., "RealNetworks, Inc., Leading Media Delivery for the Digital Age," January 31, 2000	
		TANENBAUM, Andrew S., "OPERATING SYSTEMS; DESIGN AND IMPLEMENTATION," 1987 by Prentice-Hall, Inc.	
		DATE, C.J., "An Introduction to Database Systems," Volume 1, 1986	
		"RSA ships Certificate Issuing System 1.1," January 12, 1994.	
		KAHN, Robert et al., "A Framework for Distributed Digital Object Services," May 13, 1995,	
		DINI, Gianluca et a., "A Replicated File System for Wide-Area Networks,"	
		AMMANN, Paul E., et al., "One-Representative Safely Analysis in the Non-Monotonic Transform Model," 1994	
		SANDHU, Ravi S., et al., "On Testing for Absence of Rights in Access Control Models," June 14, 1994	
		ZURKO, Mary Ellen, et al., "Attribute Support for Inter-Domain Use," June 15, 1993	
✓		SANDHU, Ravi et al., "A Secure Kernelized Architecture for Multilevel Object-Oriented Databases," IEEE June 16, 1992	

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CM		PICCIOTTO, Jeffrey et al., "Extended labeling policies for enhanced application support," IEEE, June 18, 1991	
		BORN, Eike et al., "Discretionary access control by means of usage conditions," Computers & Security, Vol. 13, No 5, 1994	
		RUSSELL, Selwyn, "Audit-by-receiver paradigms for verification of authorization at source of electronic documents," Computers & Security, Vol. 13, No. 1, 1994	
		RUSSELL, Selwyn, "Paradigms for Verification of Authorization at Source of Electronic Documents in an Integrated Environment," Computers & Security, Vol. 12, No. 6, 1993	
		OLIVIER, M.S., et al., "Building a Secure Database Using Self-Protecting Objects," Computers & Security, Vol. 11, No. 3, 1992	
		PRESS, Jim, "Secure Transfer of Identity and Privilege Attributes in an Open Systems Environment," Computers & Security, Vol. 10, No. 10, 1991	
		Fugini, M.S., et al., "Authorization and Access Control in the Office-Net System," Computer Security in the Age of Information, 1989	
		HARDJONO, Thomas, "Record Encryption in Distributed Databases," IFIP International Conference, 1988	
		CALAS, Christel, "Distributed file system over a multilevel secure architecture problems and solutions," International Conference on Cryptology, Jan. 8, 1990	
		CALAS, Christel, "GDoM a multilevel document manager," Computer Security ESORICS, Nov. 7, 1994	

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gm		RUSSELL, S., "Planning for the EDI of Tomorrow Using Electronic Document Authorization," Computer Security, ESORICS 92, Nov. 23, 1992	
		LIN, Ping., "The Encapsulated Security Services Interface (ESSI)," Computer Security, May 12, 1993	
		FUGINI, Mariagrazia, et al., "Security Management in Office Information Systems," Computer Security, May 12, 1993	
		Montini, Giorgio et al., "Access Control Models and Office Structures," Computer Security, Sept. 10, 1984	
		SEBES, E. John, et al., "The Triad System: the Design of a Distributed, Real-Time, Trusted System," Computer Security, Sept. 1, 1984	
		SEBES, John E., et al., "The Architecture of Triad: A Distributed, Real-Time, Trusted System," downloaded from Internet" Jan. 22, 1998	
		WONG, Raymond, et al., "The SDOS System: A Secure Distributed Operating System Prototype," U.S. Air Force	
		SEBES, John E., "Overview of the Architecture of Distributed Trusted Mach," Mach Symposium	
		BENZEL, Terry C. Vickers, et al., "Identification of Subjects and Objects in a Trusted Extensible Client Server Architecture,"	
		BORENSTEIN, Nathaniel Borenstein, et al., "MIME Extensions for Mail-enabled Applications: application/Safe-Tcl and multiplart/enabled-mail, November 1993	

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Application Number	10/770,353
Filing Date	02/02/2004
First Named Inventor	Ganapathy Krishnan
Art Unit	3621
Examiner Name	John M. Winter
Attorney Docket Number	35040.001C4

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OM		HARRIS, Jed, et al., "Bento Specification," Apple Computer, Inc., July 15, 1993	
		IOANNIDIS, John, et al., "IP-based Protocols for Mobile Internetworking," Columbia University	
		BELLARE, Mihir, et al., "iKP-A Family of Secure Electronic Payment Protocols," April 16, 1995	
		HARN, Lein et al., "A Software Authentication System for the Prevention of Computer Viruses," University of Science and Technology of China, 1992	
		TERRY, Douglas B., et al., "Managing Stored Voice in the Etherphone System," ACM Transactions on Computer Systems, Vol. 6, No. 1, Feb. 1988	
		DEUTSCH, P., "GZIP file format specification version 4.3," Network Working Group, May 1996	
		GONG, Li, "A Secure Identity-Based Capability System," University of Cambridge Computer Laboratory, January 1989	
		SHAMIR, Adi, "How to Share a Secret," MIT, Vol. 22, No. 11, November 1979	
		MERKLE, Ralph C., "Secure Communications Over Insecure Channels," University of California, Berkeley, Vo. 21, No. 4, April 1978	
		DENNING, Dorothy E., "Secure Personal Computing in an Insecure Network," Purdue University, Vo. 22, No. 8 August 1979	

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Q		HAUSER, Ralf C., "Does Licensing Require New Access Control Techniques?", August 12, 1993	
		NEUMAN, B. Clifford, et al., " Requirements for Network Payment: The NetCheque Perspective," USC, March 1995	
		MEDVINSKY, Gennady et al., "NetCash: A design for practical electronic currency on the Internet," USC, 1993	
		FRANZ, Michael, "Technological Steps toward a Software Component Industry"	
		LONG, Robert H., "Public Protection and Education with EFT," Social Impacts of Computing, Vo. 22, No. 12, Dec. 1979	
		"H-PCTE Main Page," January 2, 2002	
		KENT, S., et al., "Privacy Enhancement for Internet Electronic Mail: Part II - Certificate-Based Key Management," IAB Privacy Task Force, Aug. 1989	
		LIN, J., "Privacy Enhancement for Internet Electronic Mail: Part I - Message Encipherment and Authentication Procedures," IAB Privacy Task Force, Aug. 1989	
		CHAUM, David, "Achieving Electronic Privacy," Sci American, Aug. 1992	
✓		"OLE 2 Programmer's Reference, Vol. 1, 1994	

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OM		OLIVER, M.S. et al., "Building a Secure Database Using Self-Protecting Objects," Computers & Security, Vol. 11, No. 3, 1992	
		THURASINGHAM, M.B., "Mandatory Security in Object-Oriented Database Systems," The MITRE Corporation, October 1, 1989	
		CHAUM, David, "Security without Identification: Transaction Systems to Make Big Brother Obsolete," Communications of the ACM, Vo. 28, No. 10 Oct. 1985	
		LAMPSON, Butler W., "Computer Security," Digital Equipment Corp.	
		SCHNEIER, Bruce, "RSA Data Security Conference," RSA Data Security Conference, January 18, 1994	
		WALKER, Stephen., "Notes from RSA Data Security Conference," January 18, 1994	
		"iPower's Data Security Approach," RSA Security, January 12, 1994	
		"General Magic Picks RSA," RSA Security, January 12, 1994	
		"Enterprise Solutions Announces RSA Mail," RSA Security, January 12, 1994	
		"Hewlett-Packard Chooses RSA," RSA Security, January 12, 1994	

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Ch		"Higraeve Ships Secure Version of HyperACCESS/5," RSA Security, January 12, 1994	
		"RSA Enters Wireless Arena," RSA Security, January 12, 1994	
		MCNULTY, F., Lynn., "Security on the Internet," Subcommittee on Science, U.S. House of Representatives, March 22, 1994	
		CURRY, David A., "Improving the Security of Your Unix System," SRI International, Final Report, April 1990	
		FARMER, Dan, "Improving the Security of Your Site by Breaking Into it," Sun.Com, 1993	
		KELTER, Udo, "Type-Level Access Controls for Distributed Structurally Object-Oriented Database Systems"	
		KOHL, J., et al., "The Kerberos Network Authentication Service (V5)," Network Working Group, September 1993	
		Rubin, Aviel D., "An experience teaching a graduate course in cryptography," New York University	
		THOMPSON, Ken., "Reflections on Trusting Trust," Communication of the ACM, Vol. 27, No. 8, August 1984	
		BERTINO, Elisa, "Data Hiding and Security in Object-Oriented Databases," IEEE, 1992	

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M		TANNENBAUM, Todd, "Netscape Surfs the WorldWide Web Better Than Mosaic," Network Computing	
		Network Computing, Vo. 6, No. 7, June 1, 1995	
		LOW, S.H. et al., " Document Marking and Identification using Both Line and Word Shifting," Infocom '95, Boston, Massachusetts, April 1995	
		MAXEMCHUK, N.F., "Electronic Document Distribution," AT&T Bell Laboratories,	
		SALTZER, Jerome H., et al., " The Protection of Information in Computer Systems"	
		DAVID, E.E., Jr., et al. "Some Thoughts About the Social Implications of Accessible Computing "	
		CORBATO, F.J., et al., "Introduction and Overview of the Multics System."	
		NYANCHAMA, Matunda et al., "Access Rights Administration in Role-Based Security Systems," Database Security VIII: Status & Prospects, August, 1994.	
		MOFFETT, Jonathan D., et al., "User and Mechanism Views of Distributed Systems Management," Systems Engineering Journal, Vol. 1, No. 1, Aug. 1993	
✓		SLOMAN, Morris, et al., "Managing Distributed Systems," Domino: A1/IC/1.2, Sept. 25, 1989	

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		MOFFETT, Jonathan D., "Specification of Management Policies and Discretionary Access Control," Chapter 17, University of York, June 28, 1994	
		MOFFETT, Jonathan D., "Specification of Management Policies and Discretionary Access Control," Chapter 18, Imperial College of Science Technology and Medicine	
		MOFFETT, Jonathan D., et al., "Policy Hierarchies for Distributed Systems Management," IEEE JSAC Special Issue on Network Management, Vol. 11, NO. 9, Dec. 1993	
		MOFFETT, Jonathan D., et al., "The Representation of Policies as System Objects," SIGOIS Bulletin, Vol. 12, Nos. 2&3, Nov. 5, 1991	
		SLOMAN, Morris, "Policy Driven Management for Distributed Systems," Journal of Network and Systems Management, Plenum Press, Vol. 2, No. 4, 1994	
		CRIGLER, Jeff, "An ONLINE Interview with Jeff Crigler," July 1996	
		BENTON, Peter., "Packing Information for Superdistribution," IBM	
		KAPLAN, Marc A., "IBM Cryptolopes, Super Distribution and Digital Rights Management," Dec. 30, 1996	
		National Information Systems Security (INFOSEC) Glossary, Sept. 2000	

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		LAMPSON, Butler W., "A Note on the Confinement Problem," Xerox Palo Alto Research Center	
		MILLEN, Jonathan, K., et al., "Security for Object-Oriented Database Systems," IEEE 1992	
		KIM, Laura, et al., "Novell Cuisine," IEEE, May 4, 1992	
		Koenig, Andrew, "Automatic Software Distribution," User Services Conference XIX, Nov. 3, 1991	
		HERZBERG, Amir et al., "Public Protection of Software," Israel Institute of Technology, June 12, 1984	
		BROOKS, Catherine, A., "Experiences with Electronic Software Distribution," AT&T Information Systems	
		LEISS, Ernst, "On Authorization systems with Grantor-Controlled Propagation of Privileges," University of Houston, June 11, 1985	
✓		HAUSER, Ralf, G., "Does Licensing Require New Access Control Techniques?" February 28, 1983	

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01		STRACK, Hermann, "Extended Access Control in UNIX System V-ACLs and Context," European Institute for System Security	
		KARDEL, Frank, "Frozen Files," USENIX Association, Aug. 27, 1990	
		POLK, Timothy, W., "Approximating Clark-Wilson "Access Triples" with Basic UNIX Controls," USENIX Association, Aug. 27, 1990	
		KAMENS, Jonathan, I., "Retrofitting network security to third-party applications - the SecureBase experience," UNIX Security IV, Oct. 4, 1993	
		HEYDON, Allan, et al., "Specifying and Checking Unix Security Constraints," UNIX Security Symposium, Oct. 4, 1993	
		HAYNES, Rena A., et al., "Software Security for a Network Storage Service," UNIX Security III, Sept. 14, 1992	
		GAMBLE, Todd, "Implementing Execution Controls in Unix," UNIX Security III, Sept. 14, 1992	
		EPSTEIN, Jeremy et al., "A Trusted X Window System Server for Trusted Mach," Nov. 1, 1993	
		SANDHU, Ravi S., et al., "On the Minimality of Testing for Rights in Transformation Models," IEEE, May 16, 1994	
		KELTER, Udo, "Discretionary Access Controls in a High-Performance Object Management System," IEEE, May 20, 1991	

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9		BALDWIN, Robert W., "Naming and Grouping Privileges to Simplify Security Management in Large Databases," IEEE May 7, 1990	
		KEEFE, T.F., et al., "Multiversion Concurrency Control for Multilevel Secure Database Systems," IEEE May 7, 1990	
		DOWNS, Deborah, D., et al., "Issues in Discretionary Access Control," Security and Privacy Symposium, April 22, 1985	
		SOLOMON, Daniel J., "Processing Multilevel Secure Objects," Security and Privacy Symposium, April 27, 1981	
		KIM, Wong, et al., "Object_oriented Concepts, Databases, and Applications"	
		WINSLOW, Ron, "For Software Firms, Question is How to Cope with Piracy," No. 85-24, April 15, 1985	
		SIMMONS, Gustavus, J., "How to (Selectively) Broadcast a Secret," Sandia National Laboratories, IEEE 1985	
		PURDY, George B., et al., "A Software Protection Scheme," IEEE 1982	
		MAUDE, Tim, et al., "Hardware Protection Against Software Piracy," Communications of the ACM, Vol 27, No. 9, Sept. 1984	
		LIPSON, Steve, "Little black box 'blocks' illicit software copying"	

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Application Number	10/770,353
Filing Date	02/02/2004
First Named Inventor	Ganapathy Krishnan
Art Unit	3621
Examiner Name	John M. Winter
Attorney Docket Number	35040.001C4

Sheet 18 of 30

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Ch		ESKICIOGLU, Almet M., et al., "An overview of multimedia content protection in consumer electronics devices," Purdue University,	
		SANDHU, Ravi S., et al., "Implementation Considerations for the Typed Access Matrix Model in a Distributed Environment," Nat. Computer Security Cof., Oct. 1992	
		RESCORLA, E., et al., "The Secure HyperText Transfer Protocol," Enterprise Integration Technologies, June 1994	
		KELTER, Udo, "Type-Level Access Controls for distributed Structurally Object-Oriented Database Systems"	
		DESWARTE, Y., et al., "Computer Security," ESORICS, Nov. 23, 1992	
		KEEFE, T.F., et al., "Prototyping the SODA Security Model," DATABASE SECURITY, 1990	
		"A Guide to Understanding Security Modeling in Trusted Systems," Oct. 1992	
		SANDHU, Ravi, S., "The Typed Access Matrix Model," IEEE, May 4, 1992	
		BERTINO, Elisa, "Object-Oriented Database Systems"	
		LAMB, et al., "The Objectstore Database System," Oct. 1991	

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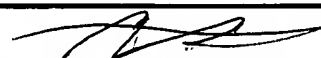
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C		GRAUBARI, Richard, "A Comparison of Three Secure KBMS Architectures," DATABASE SECURITY, 1990	
		KRISTOL, David M., et al., "Anonymous Internet Mercantile Protocol," AT&T Bell Laboratories, March 17, 1994	
		TYGAR, J.D., et al., "Strongbox: A System for Self-Securing Programs"	
		YEE, Bennet, et al., "Secure Coprocessors in Electronic Commerce Applications," First USENIX Workshop on Electronic Commerce, July 1995	
		FRANKLIN, Matthew et al., "An Overview of Secure Distributed Computing," Columbia University and Tel Aviv University, March 24, 1992	
		ANDERSON, Ross, "Why Cryptosystems Fail," University Computer Laboratory	
		BISHOP, Matt, "Privacy-Enhanced Electronic Mail"	
		BISHOP, Matt, "Anatomy of a Proactive Password Changer," Department of Mathematics and Computer Science, Dartmouth College	
		WELSH, Dominic, "Codes and Cryptography," Oxford Science Publications	
		CARROLL, John M., "Computer Security," Butterworth Publishers, 1987	

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Q		ARNEKE, David et al., "AT&T encryption system protects information services," AT&T, January 9, 1995	
		Department of Defense Standard, "Department of Defense Trusted Computer system Evaluation Criteria," Dec. 26, 1995	
		Neuman, B. Clifford, "Proxy-Based Authorization and Accounting for Distributed Systems," 13th International Conference on Distributed Computing Systems, May 1993	
		LAMPSON, Butler, W., "Computer Security," Digital Equipment Corporation, July 1990	
		BIRRELL, Andrew D., "A Global Authentication Service without Global Trust," Digital Equipment Corporation, IEEE April 1986	
		GASSER, Morrie, et al., "The Digital Distributed System Security Architecture," Digital Equipment Corp., National Computer Security Conf. 1989	
		ABADI, M., "Authentication and Delegation with Smart-cards," Digital Equipment Corporation	
		Coalition for Networked Information, Nov. 21, 1991	
		ZELEZNIK, Michael P., "Security Design in Distributed Computing Application," Dec. 1993	
V		THOMAS, Roshan K., "Implementing the Message Filter Object-Oriented Security Model without Trusted Subjects," George Mason University, Aug. 19, 1992	

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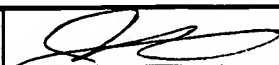
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		Filing Date	02/02/2004
		First Named Inventor	Ganapathy Krishnan
		Art Unit	3621
		Examiner Name	John M. Winter
Sheet 21 of 30	Attorney Docket Number	35040.001C4	

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		SANDHU, Ravi, S., et al., "Supporting Timing-Channel Free Computations in Multilevel Secure Object-Oriented Databases," Workshop on Database Security, Nov. 4, 1991	
		JAJODIA, Sushil, et al., "A Multilevel Secure Object-Oriented Data Model," Information Security	
		SIBERT, Olin, et al., "The Intel 80x86 Processor Architecture: Pitfalls for Secure Systems	
		LAMPSON, Butler, W., et al., "Protection," Proc. 5th Princeton Conf. on Information Sciences and Systems, Princeton, 1971	
		VAN WIE, David, "The InterTrust Approach to Electronic Commerce"	
		FINE, Todd, et al., "Assuring Distributed Trusted Mach," Secure Computing Corporation	
		MINEAR, Spencer, E., "Providing Policy Control Over Object Operations in a Mach Based System," Secure Computing Corporation, April 28, 1995	
		ROSCHEISEN, R. Martin, "A Network-Centric Design for Relationship-Based Rights Management," Stanford University, December 1997	
		YOUNG, William, D., "Verifiable Computer Security and Hardware: Issues," Computational Logice Inc., Sept. 1991	

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SN		FEIERTAG, Richard J., et al., "The foundations of a provably secure operatingsystem (PSOS), SRI International, AFIPS Press, 1979	
		DENNING, Adam, "Ole Controls Inside Out," Microsoft Press	
		DENNING, Dorothy Elizabeth Robling, "Cryptography and Data Security," Purdue University, January 1983	
		SCHNEIER, Bruce, "Applied Cryptography"	
		GARFINKEL, Simson, et al., "Practical Unix Security," O'Reilly & Associates, Inc., June 1991	
		DOUGHERTY, Dale, et al., "The Mosaic Handbook for the X Window System," October 1994	
		CURRY, David A., "UNIX System Security, A Guide for Users and System Administrators," 1962	
		GILBRETH, William J., et al., "Computer Software and the Internet," Practising Law Institute, 1995	
		BROCKSCHMIDT, Kraig, "Inside OLE 2," 1994	
		STAMOS, James W., et al., "Remote Evaluation," ACM Transactions on Programming Languages and Systems, Vol. 12, No. 4, Oct. 1990	

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		JUL, Eric, et al., "Fine-Grained Mobility in the Emerald System," University of Washington, ACM Transactions on Computer systems, Vol. 6, No. 1, Feb. 1988	
		BLACK, Andrew, et al., "Distribution and Abstract Types in Emerald," IEEE 1987	
		RAJ, Rajendra K. et al., "Emerald: A General-Purpose Programming Language," Software-Practice and Experience, Vol. 21(1), Jan. 1991	
		"Conference Record of the Fourth ACM Symposium on Principles of Programming Languages," January 17, 1977	
		Broustaut, Frederic, et al., "Verification of ANDF components," ACM, 1995	
		POGUE, David, "The Test of Time: A decade of products that keep on ticking," August, 1987	
		IOANNIDIS, John, et al., "The Architecture and Implementation of Network-Layer Security Under Unix," Columbia University and AT&T Bell Labs.	
		LINN, J., "Privacy Enhancement for Internet Electronic Mail: Part I: Message Encryption and Authentication Procedures," Feb. 1993	
		BERNERS-LEE, T.J., et al., "The world-wide web," Science Pub., 1992	

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		BENJAMIN, Robert, et al., "Electronic Markets and Virtual Value Chains on the Information Superhighway," Sloan Management Review, Winter 1995	
		WILLIAMSON, Oliver E., "The Modern Corporation: Origins, Evolution, Attributes," Journal of Economic Literature, Vol. XIX, Dec. 1981	
		CHANDLER, Alfred D., Jr., et al., "Administrative Coordination, Allocation and Monitoring: A Comparative Analysis ...," Acct., Organizations and Society, Vol. 4, No. 1 1979	
		LYNCH, Clifford, A., "Accessibility and Integrity of Networked Information Collections," July 5, 1993	
		FERRAILOLO, David, et al., "Role-Base Access Control," Nat. Institute of Standards and Technology, 1992	
		Federal Information Processing Standards Publication, "Security Requirements for Cryptographic Modules," Jan. 11, 1994	
		KREUTZER, Andrew N., "An On-line system for controlling and monitoring software usage in a microcomputer laboratory," SIGUCCS Newsletter XVIII/2	
		"Think Pascal," User Manual, 1990	
		LISKOV, Barbara, et al, "Theta Reference Manual," MIT, Feb. 8, 1995	

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		SINGH, Simon, "The Code Book, The Science of Serecy from Ancient Egypt to Quantum Cryptography" Anchor Books, 1999	
		BROWN, George, W., et al., "EDUNET: Report of the Summer Study on Information Networks," John Wiley & Sons, 1967	
		KAHN, David, "The Codebreakers: The Story of Secret Writing," The Macmillan Company, 1967	
		COX, Brad, "Superdistribution," Addison-Wesley Publishing Company, 1996	
		COHEN, Frederick B., "Protection and Security on the Information Superhighway," 1998	
		DEAVOURS, Cipher A., et al., "Selections from Cryptologia, History, People, and Technology," Artech House	
		DEAVOURS, et al., "Cryptology: Machines, History & Methods," Artech House, 1989	
		BLAZE, Matt, "A Cryptographic File System for Unix," AT&T Bell Laboratories, Nov. 3, 1993.	
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STATEMENT BY APPLICANT**

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Application Number	10/770,353
Filing Date	02/02/2004
First Named Inventor	Ganapathy Krishnan
Art Unit	3621
Examiner Name	John M. Winter
Attorney Docket Number	35040.001C4

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**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
CM		HARDY, Norman, "The Keyko Architecture," Key Logic, Sept. 1985	
		MILLER, S.P., et al., "Kerberos Authentication and Authorization System," MIT, Oct. 27, 1988	
		"OpenDoc vs. OLE 2.0: Superior by Design, (A Developer's View), Jan. 1994	
		BLAZE, Matt, et al., "Decentralized Trush Management," AT&T Research, IEEE, May 1996	
		"SKIPJACK and KEA Algoritihm Specifications," Version 2.0, May 29, 1998	
		DENNING, Dorothy, E., et al., "KEY ESCROWING TODAY," Georgetown University, 1994	
		BRICKELL, Ernest F., et al., "The SKIPJACK Algorithm," BBN Communications Corp., July 28, 1993	
		BLAZE, Matt., "Key Managemnt in Encrypting File System," AT&T Bell Laboratories	
		WOO, Thomas Y.C., et al., "A Framework for Distributed Authorization," University of Texas at Austin, Nov. 1993	
		ROBINSON, D. et al., "Encoding Header Field for Internet Messages," Prime Computer, Inc., April 1990	

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Q		Rose, M., et al., "Structure and Identification of Managemnt Information for TCP/IP-based Internets," Hughes LAN Systems, May 1990	
		DAVIN, J., et al., "SNMP Administrative Model," MIT, July 1992	
		GALVIN, J., et al., "SNMP Security Protocols," MIT, July 1992	
		MCCLOGHRIE, K., et al., "Definitions of Managed Objects for Administration of SNMP Parties," Hughes LAN Systems, Inc. July 1992	
		MCCLOGHRIE, K., et al., "Management Information Base for Network Management of TCP/IP-based internets, Hughes LAN Systems, May 1990	
		CASE, J., "A Simple Network Management Protocol," SNMP Research, May 1990	
		COLLBERG, Christian S., et al., "Watermarking, Tamper-Proofing, and Obfuscation - Tools for Software Protection," University of AZ., Feb. 10, 2000	
		WOLFE, David, "The BBS Construction Kit," Katherine Schowalter, 1994	
		SHEFSKI, William, J., "Free Electronic Networks," Prima Computer Books, 1994	
V		KROL, Ed., "The Whole Internet Unser's Guide & Catalog," Sept. 1992	

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Sheet 28	of 30	Attorney Docket Number	35040.001C4

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		WINSLOW, Ron, "For Software Firms, Question is how to cope with Piracy," The Wall Street Journal, April 12, 1985	
		SIMMONS, Gustavus J., "How to Selectively Broadcast a Secret," Sandia National Laboratories, IEEE 1985	
		PURDY, George B. et al., "A software Protection Scheme," IEEE, 1982	
		MAUDE, Tim, et al., "Hardware Protection Against Software Piracy," Communications of the ACM, Vol. 27, No. 9, Sept. 1984	
		RASHID, Richard F., "CMU Computer Science A 25th Anniversary Commemorative," Carnegie Mellon University, 1991	
		KENT, Stephen Thomas, "Protecting Externally Supplied Software in Small computers," IBM, September 1980	
		"Commercial Security Requirements for Multi-User Operating Systems," NIST, Issue 1.1, January 1993	
		"Label Based Protection for Multi-User Information Systems," Federal Criteria for IT Security, December 1992	
		IOANNIDIS, John, et al., "The Architecture and Implementation of Network-Layer Security Under Unix," Columbia University	
		HANSEN, Stephen E., "automated system Monitoring and Notifcation with Swatch," Nov. 1, 1993	

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Ch		BELLOVIN, Steven M., "There Be Dragons," UNIX Security Sympisum, Aug. 1992	
		HALLER, Neil M., "The S/Key One-Time Password System," Bellcore	
		Varadhan, Kannan, "OARnet Security Procedures," OARnet, Spet. 15, 1992	
		BELLOVIN, Steven M. et al., "Augmented Encrypted key Exchange: a Password-Based Protocol Secure Against Dictionary Attkcs and Pasword File Compromise," Bell Labs	
		BELLOVIN, Steven M., et al., "Encrypted Key Exhcange: Password-Based Protocols Secure Against Dictionary Attacks," IEEE, May 1992	
		HARMON, Amy, "Piracy, or Innovation? It's Hollywood vs. High Tech," NY Times, March 14, 2002	
		BRANDS, Stefan., "Untraceable Off-Line Cash in Wallets with Observers"	
		WHITE, James, E., "Mobile Agents," Aug. 8, 1995	
		TARDO, Joseph et al., "Mobile Agent Security and Telescript," General Magic, Inc.	
V		KOHL, John., "The Kerberos Network Authentication Service," MIT, June 30, 1991	

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		MENEZES, Alfred J., "Handbook of Applied Cryptography," 1965	
		PRESS, Larry., "National Information Infrastructures: The Internet and Interactive Television," Conf., on The Electronic Highway, University of Montreal, 1994	
		"Policy and Technology: Partners in Solutions," 19th National Information systems Security Conference, Oct. 22, 1996	
		HALFHILL, Tom R., et al., "Just Like Magic?" February 1994	
		CLARK, Jim, "A TeleComputer," Computer Graphics, Vol. 26, July 2, 1992	

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